website : http://www.LGEservice.com
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WASHING MACHINE
SERVICE MANUAL

CAUTION

READ THIS MANUAL CAREFULLY TO DIAGNOSE TROUBLE
CORRECTLY BEFORE OFFERING SERVICE.

MODEL : WD-14360(5)TD / WD-14361(6)TD
WD-12360(5)TD / WD-12361(6)TD
WD-10360(5)TD / WD-10361(6)TD
WD-14360(5)FDN
WD-12360(5)FDN
WD-14360(5)FDB
WD-12360(5)FDB
WD-12361FD / WD-10361FD

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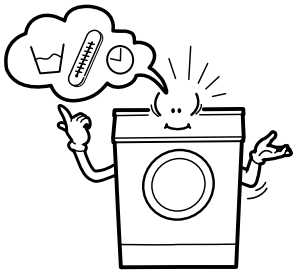
1. SPECIFICATIONS

ITEM		WD-14360(5)TD / WD-14361(6)TD / WD-12360(5)TD / WD-12361(6)TD WD-14360(5)FDN / WD-12360(5)FDN / WD-14360(5)FDB / WD-12360(5)FDB / WD-12361FD / WD-10361FD	
POWER SUPPLY		220-240V~, 50Hz	
PRODUCT WEIGHT		58kg	
ELECTRICITY CONSUMPTION	WASHING	135W	
	SPIN (1400rpm)	530W	
	DRAIN MOTOR	32W	
	WASH HEATER	2000W	
REVOLUTION SPEED	WASH	50rpm	
	SPIN	WD-14360(5)TD/WD-14361(6)TD/WD-14360(5)FDN/WD-14360(5)FDB	No Spin/Rinse Hold400/600/800/1000/1400rpm
		WD-12360(5)TD/WD-12361(6)TD/WD-12360(5)FDN/WD-12360(5)FDB/WD-12361FD	No Spin/Rinse Hold400/600/800/1000/1200rpm
		WD-10360(5)TD/WD-10361(6)TD/WD-10361FD	No Spin/Rinse Hold400/600/800/900/1000rpm
OPERATION WATER PRESSURE		0.3-10kgf/cm^2 (30-1000kPa)	
CONTROL TYPE		Electronic	
WASH CAPACITY		7.0kg	
		Synthetic(3.5kg), Delicate(3.0kg) Wool(2.0kg), Hand Wash(2.0kg) Quick 30(2.0kg)	
DIMENSION		600mm(W)×550mm(D)×850mm(H)	
WASH PROGRAM		Cotton, Eco, Synthetic, Delicate, Wool, Hand Wash, Quick 30, Drain, Rinse+Spin	
OPTION		Bio, Intensive, Rinse +, Pre-Wash, Crease Care	
DOOR SWITCH TYPE		Bi-Metal type	
WATER LEVEL		9 steps (by sensor)	
RESERVATION		From 3 hours to 19 hours	
SENSING OF THE LAUNDRY AMOUNT		Available	
FUZZY LOGIC		Available	
DISPLAY OF THE REMAINING TIME		Available	
ERROR DIAGNOSIS		10 items	
POWER AUTO OFF		Available	
CHILD LOCK		Available	
AUTO RESTART		Available	

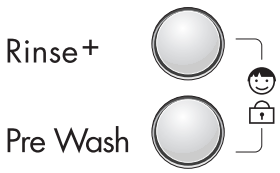
2. FEATURES & TECHNICAL EXPLANATION

2-1.FEATURES



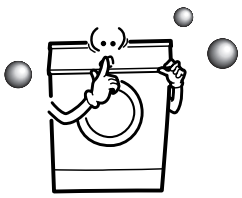
■ More economical by Fuzzy Logic System

FUZZY Logic System detects the amount of load and water temperature, and then determines the optimum water level and washing time to minimize energy and water consumption.



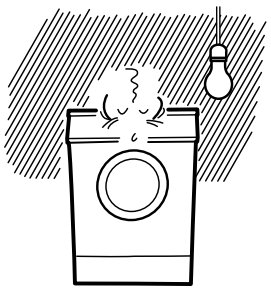
■ Child-Lock

The Child-Lock system has been developed to prevent children from pressing any button (except Power button) to change the programme during operation.



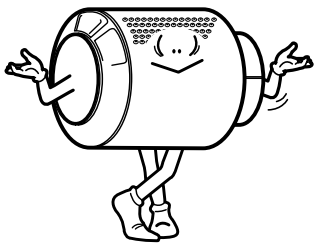
■ Low noise speed control system

By sensing the amount of load and balance, this system automatically distributes load evenly to minimize the spinning noise level.



■ Auto Restart

Auto Restart allows the program to restart all by itself in case of power failure. It does from the stage where it stopped. It will be also the same when washer is plugged-in after unplugging.



■ Direct Drive System

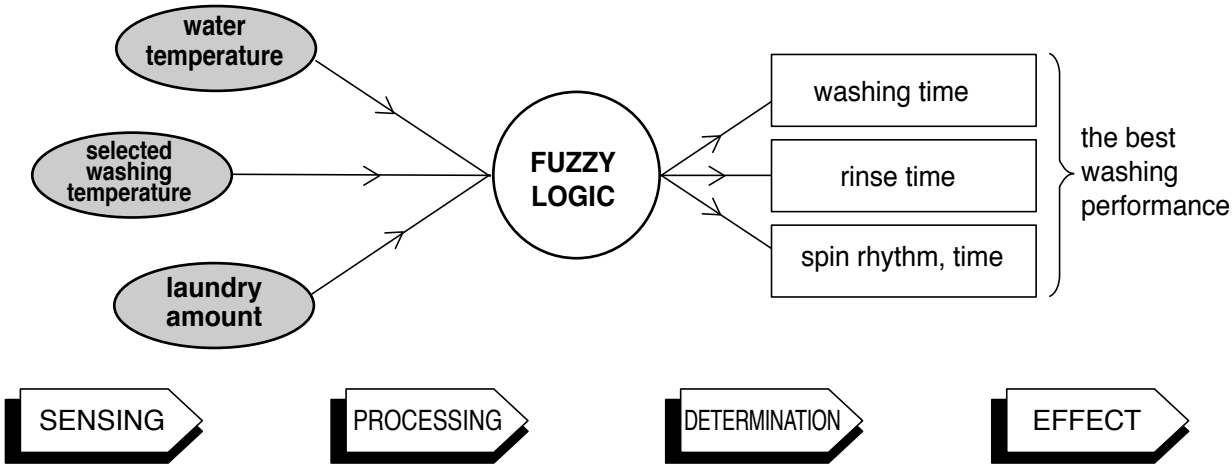
The advanced Brushless DC motor rotates the drum directly without a belt and a pulley.

■ Safety device (Aqua lock) - WD-14360(5)TD/12360(5)TD

Aqua lock System is designed for detecting water leak during operation to prevent water from flooding over the floor.

2-2.DETERMINE WASHING TIME BY FUZZY LOGIC

To get the best washing performance optimal time is determined by sensing of water temperature, selected washing temperature and laundry amount.



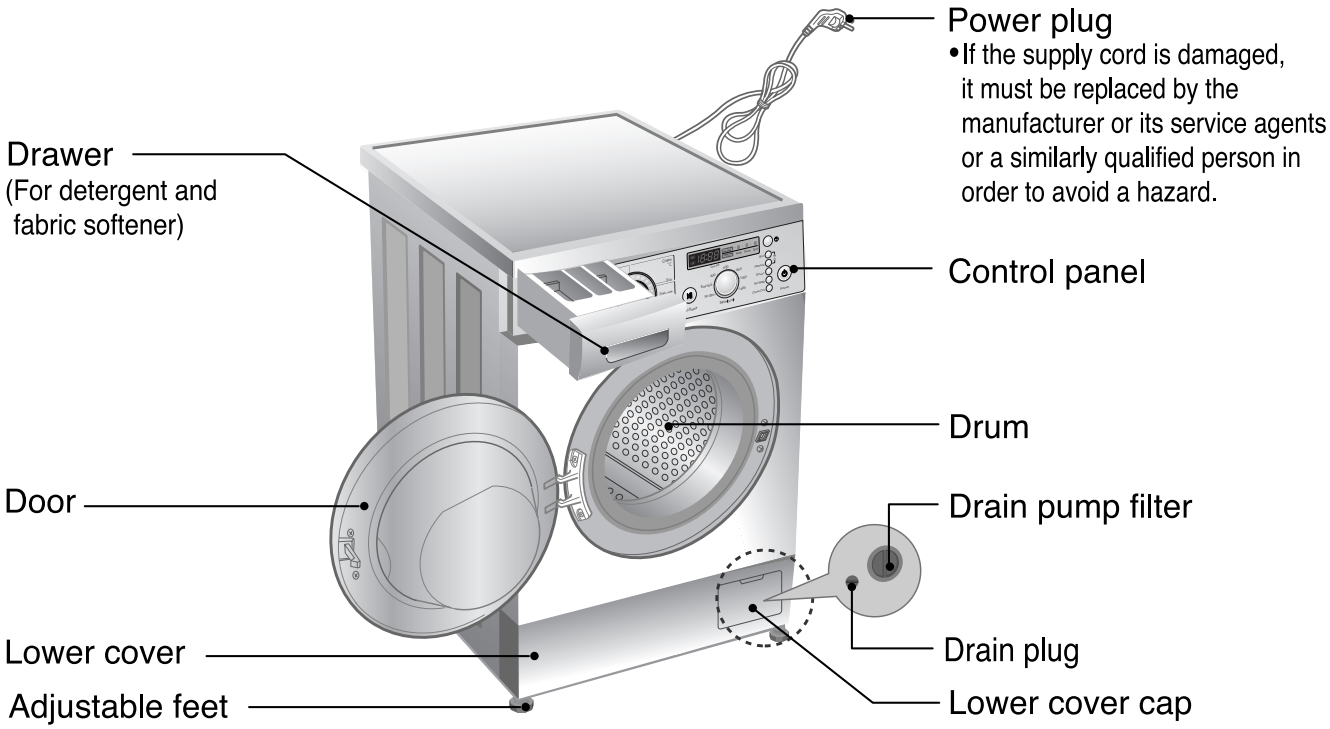
2-3.WATER LEVEL CONTROL

- This model adopts a pressure sensor which can sense the water level in the tub.
- When the water level reaches to the preset level the water supply is stopped, then the washing program proceeds.
- Spinning does not proceed until the water in the tub reduces a certain level.

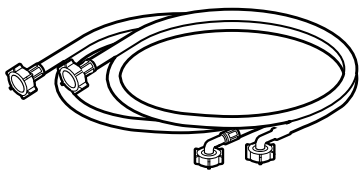
2-4.THE DOOR CAN NOT BE OPENED

- While program is operating.
- While **Door Lock** light turns on.

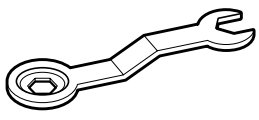
3. PARTS IDENTIFICATION


Power plug
• If the supply cord is damaged, it must be replaced by the manufacturer or its service agents or a similarly qualified person in order to avoid a hazard.
Drawer
(For detergent and fabric softener)
Control panel
Drum
Door
Drain pump filter
Drain plug
Lower cover
Lower cover cap
Adjustable feet

■ACCESSORIES



Inlet hose (1EA) * Option : Hot / Cold (2EA)

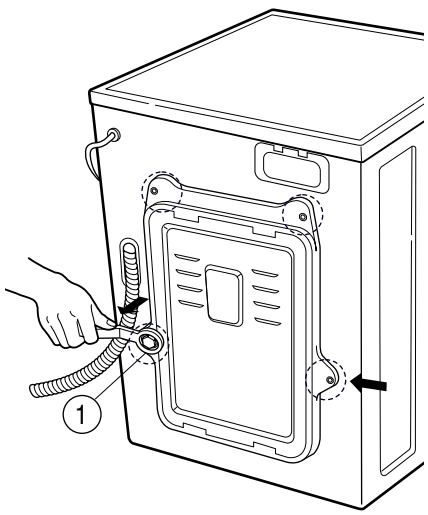
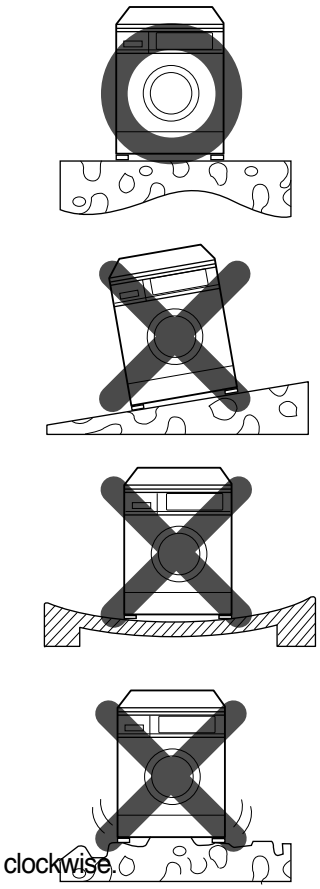
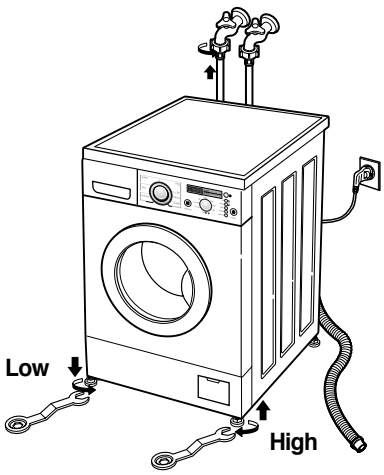


Spanner

4. INSTALLATION

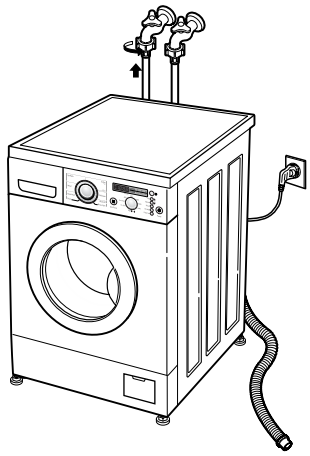
1 Before servicing ask the customer what the trouble is.
2 Check the adjustments. (Power supply :220~240V, Removal of transit bolts etc..)
3 Check the troubles referring to the troubleshooting.
4 Decide service steps referring to disassembly instructions.
5 Then, service and repair.
6 After servicing, operate the appliance to see whether it works O·K or NOT.

■ STANDARD INSTALLATION
The appliance should be installed as follows.

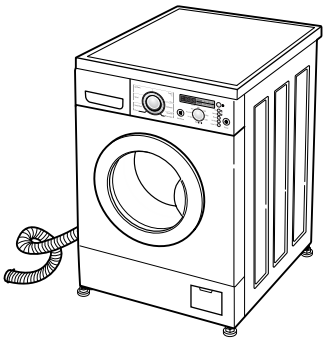
REMOVE THE TRANSIT BOLTS	INSTALL THE APPLIANCE ON FLAT AND FIRM SURFACE	ADJUST THE HORIZONTAL
• Remove the transit bolts (4EA:①) with supplied wrench. • Keep the transit bolts and wrench for future use. • Insert the 4 caps provided into the hole. 		• Turn the adjustable feet to set the appliance horizontally.  • The appliance goes up by rotating the feet clockwise. • The appliance comes down by rotating the feet counter-

■ HOW TO CONNECT INLET HOSE

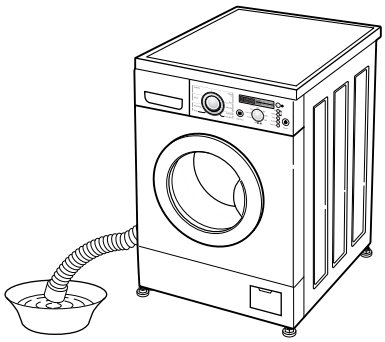
- Check that the rubber is inside the valve connector.
- Connect inlet hoses firmly to prevent leak.



■ CONNECT DRAIN HOSE



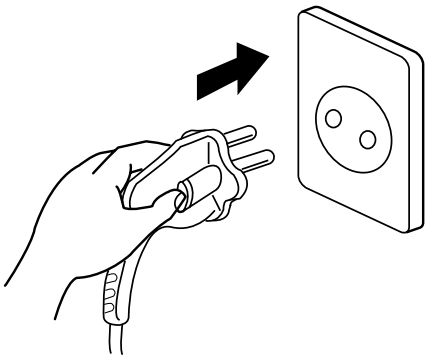
· Make sure that the hose is not twisted.



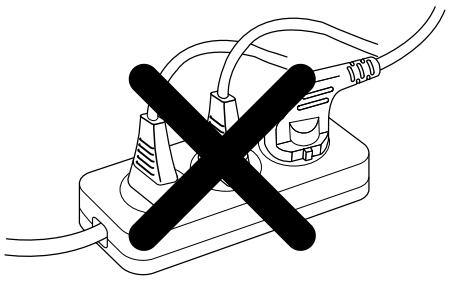
· Avoid submerging the end of the hose.

※ The drain hose should be placed under 100cm from the floor.

■ CONNECT POWER PLUG



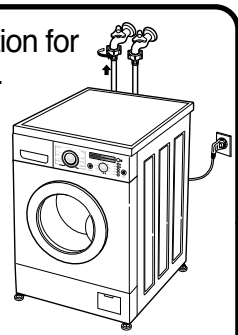
· Connect the power plug to the wall outlet.



· Avoid connecting several electric devices,
It may be the cause of a fire.

7 TEST OPERATION

1 Preparation for washing.

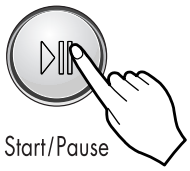


- Connect the power plug to the outlet.
- Connect the inlet hose.

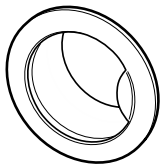
2 Press the power button.

- In case of cotton program.

3 Press the START/PAUSE button.

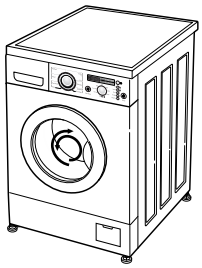


4 Check the water supply.



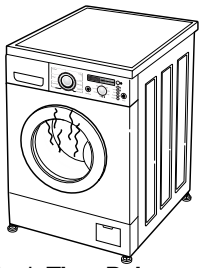
· Check if water is supplied through the detergent dispenser.

5 Check automatic reverse turn.



· Check if the drum rotates clockwise and counterclockwise.

6 Check the water heating.



· Press both **Time Delay** and **Pre Wash** buttons simultaneously the present temperature will be displayed.

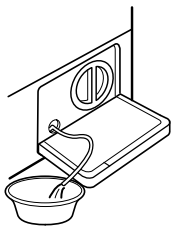
7 Check drain and spin

· Power off and then power on. Turn on Spin lamps after pressing the Start/Pause button and Start the machine again.
· Check drain and spin.

8 Power off and open the door

· Power off and then power on.
· Check if the door can be opened after **Door Lock** lamp turns off.

9 Water removal



· If SVC is needed during check, remove the remaining water by pulling out the hose cap.

5. OPERATION

Eco

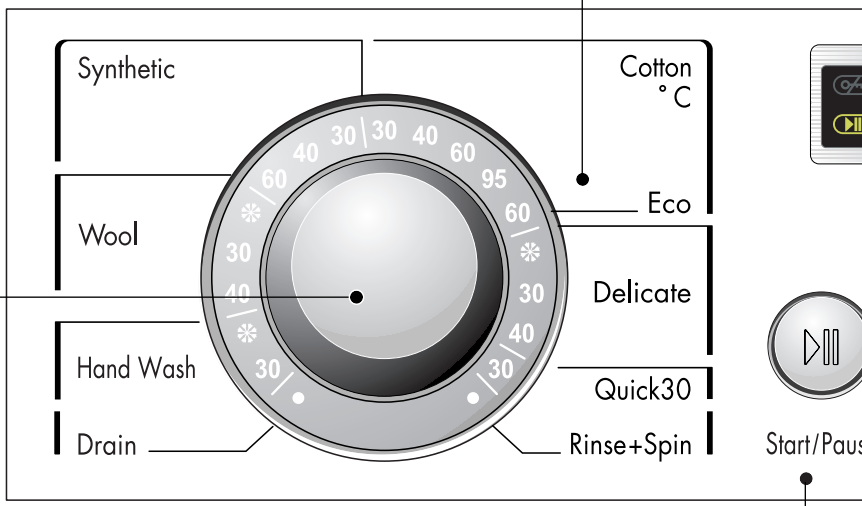
- It is possible in cotton course when 60°C

LED display

- Display the estimated remaining time (Hour : Minute) to finish.
- In case of abnormal operation, error indications are displayed.
  (IE, OE, UE, dE, tE, FE, PE, CE, LE, Aqua lock)
- See troubleshooting guide.

Wash program selector

- 9 programs can be set depending on the type of the laundry.
- If the power button is pressed, all lamps are on
- By turning the dial, [Cotton ⇨ Eco ⇨ Delicate ⇨ Quick 30 ⇨ Rinse + Spin ⇨ Drain ⇨ Hand Wash ⇨ Wool ⇨ Synthetic] can be selected. (The opposite is possible)



Start/Pause button

- Use the button to start or pause wash cycle.
- The power turns off automatically 4 minutes after the pause button is pressed.

Spin

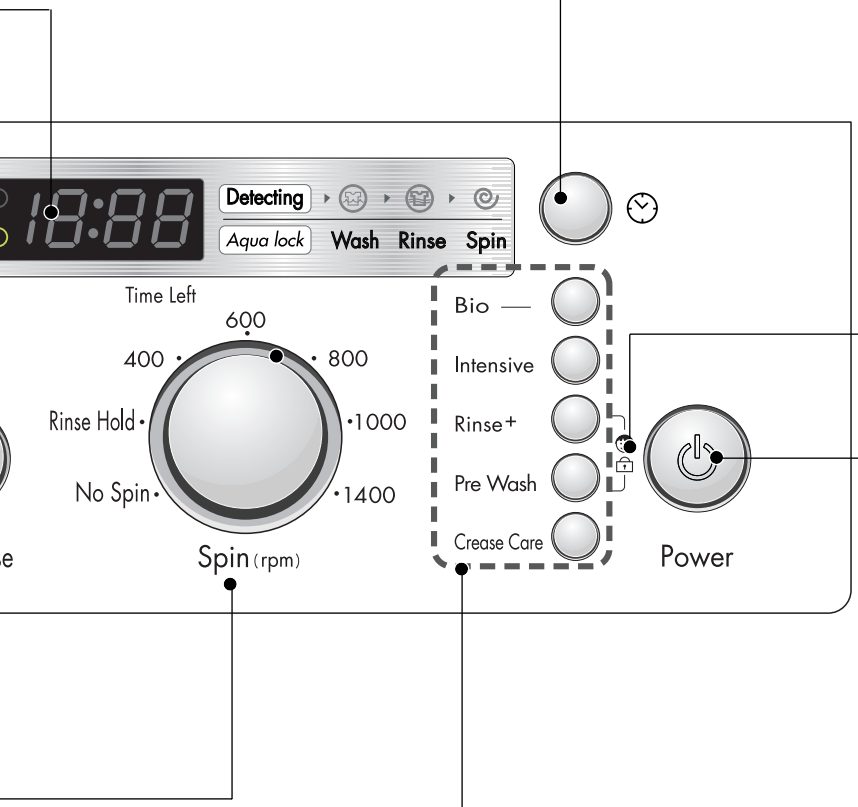
- WD-14360(5)TD / WD-14361(6)TD / WD-14360(5)FDN / WD-14360(5)FDB ⇨ No spin/Rinse Hold/400/600/800/1000/1400
- WD-12360(5)TD / WD-12361(6)TD / WD-12360(5)FDN / WD-12360(5)FDB / WD-12361FD ⇨ No spin/Rinse Hold/400/600/800/1000/1200
- WD-10360(5)TD / WD-10361(6)TD / WD-10361FD ⇨ No spin/Rinse Hold/400/600/800/900/1000

Time Delay

- Press the button when delayed washing is needed.
- When the button is pressed, [3:00] is displayed, maximum delay of [19:00] hours can be set.
- Each press advances time delay by the hour.
- Use [Power] button to cancel [Time Delay]
- [Time Delay] means the time required from the present to the completion of washing.

Child - Lock

- **Child Lock** system can be set and canceled by pressing and holding both **Rinse+** button and **Pre Wash** button simultaneously more than 3 seconds.
- Once **Child Lock** is set, all buttons are inoperable except power button.
- **Child Lock** system can be set anytime even during Power-off and operation.
- It is automatically cancelled when an operational error occur.



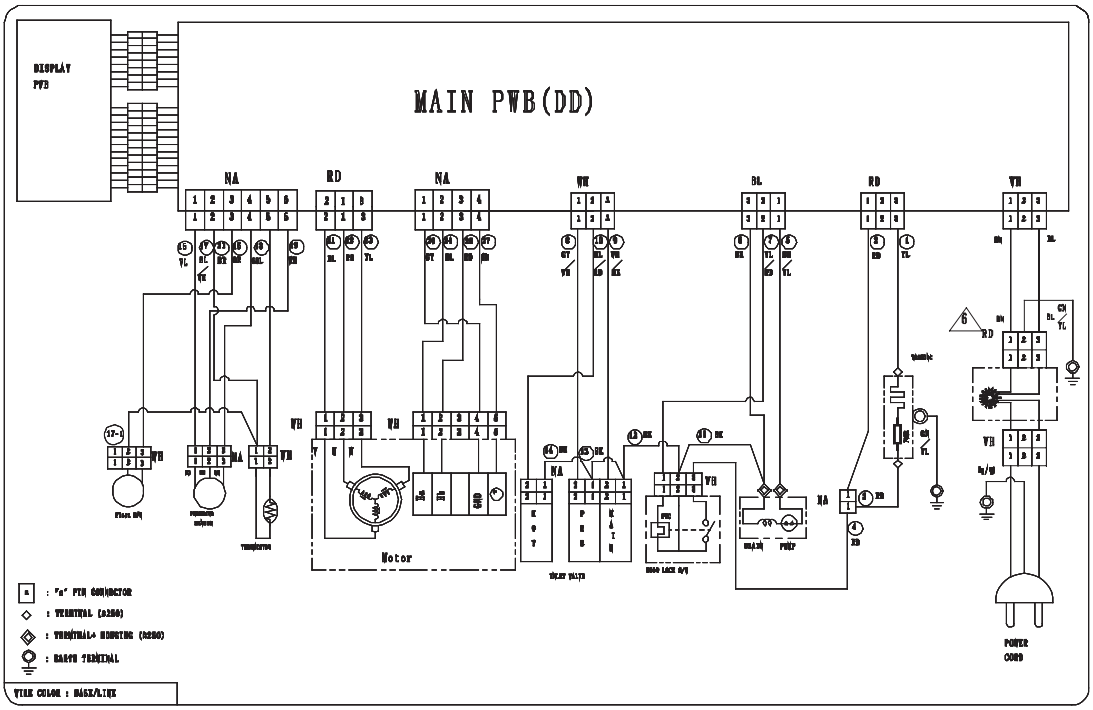
Power button

- Press the button to turn power on and off.
- Press the button to cancel the time delay.

Option

- **Bio** : If you want to eliminate protein stains(milk, blood, chocolate...), you may select Bio by pressing the option button. [You can select Bio when temperature is higher than 60° C in Cotton and Synthetic.]
- **Intensive** : • If the laundry is heavily soiled “Intensive” option is effective.
  • By selecting the Intensive option, the wash time may be extended, depending on the program selected.
- **Rinse+** : If you wish to rinse more, the Rinse+ option will remove any trace of detergents.
- **Pre Wash** : If the laundry is heavily soiled, “Pre Wash” course is effective.
  Pre Wash is available in Cotton and Synthetic Program.
- **Crease Care** : If you want to prevent crease, select this button with spin

6. WIRING DIAGRAM / PROGRAM CHART



* Water Supply : W·S　　* Intermittent Spin : I·S　　* Disentangle : D·T

CYCLE STEP / COURSE	Washing: Pre W·S	Pre Washing	Pre Drain	Pre I·S	Main W·S	Main Washing: Heating	Main Washing: Washing	Staycooling W·S	Staycooling Rinsing	Staycooling Drain	Rinse: Normal 1 Drain	1 I·S	1 W·S	1 Rinsing	Normal 2 Drain	2 I·S	2 W·S	2 Rinsing	Normal 3 Drain	3 I·S	3 W·S	3 Rinsing	Rinse + 4 Drain	4 I·S	4 W·S	4 Rinsing	Spin Drain	Spin	Spin D·T	END	AUTOOFF	Normal Working Time (Hour:Minute)
STEP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	20	20	
Time (SEC)	120	MIN	60	240	120		MIN	120	60	60	60	360	120	180	60	360	120	180	60	360	120	180	60	360	120	180	60	780	120	20	20	
Cotton		8					49																					780				About 1:31
Synthetic							34																					540				About 1:26
Delicate							23																					360				About 58
Wool							20																					540				About 56
Handwash							11																					360				About 49
Quick 30							12																					160				About 30
Rinse + Spin																												780				About 24
Drain																																About 1

* ▬▬ Basic Cycle
* ▬▬ Optional Cycle
* Pre-Setting Time : Water Supply - 120 sec.
Drain - 60 sec.
* ~ Time for varies as the temperature or the amount of laundry

* Basic time is minute in washing chart
* The actual program time can be varied with the load amount, water temperature or ambient temperature

✻ **Bio** : If you want to eliminate protein stains(milk, blood, chocolate...), you may select Bio by pressing the option button. [You can select Bio when temperature is higher than 60˚C in Cotton and Synthetic.]

✻ **Intensive** : • If the laundry is heavily soiled “Intensive” option is effective.
• By selecting the Intensive option, the wash time may be extended, depending on the program selected.

✻ **Rinse+** : If you wish to rinse more, the Rinse+ option will remove any trace of detergents.

✻ **Pre Wash** : If the laundry is heavily soiled, “Pre Wash” course is effective.
Pre Wash is available in Cotton and Synthetic Program.

✻ **Crease Care** : If you want to prevent crease, select this button with spin

7. TROUBLESHOOTING

7-1.BEFORE PERFORMING SERVICE

■ Be careful of electric shock or disconnecting the parts while trouble shooting.

■ Voltage of each terminal in 220-240V and DC while applying an electric current.

7-2.QC TEST MODE.

① Press **Bio** and **Rinse+** buttons simultaneously.

② Press Power with above two buttons pressed and then buzzer will sound.

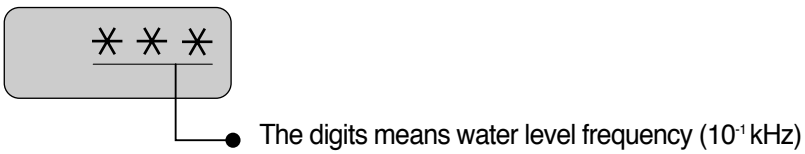
③ Press the START/PAUSE button as follows.

[Press the START/PAUSE button more 4 times until stop spinning]

Pressing number of [START/PAUSE] button	Checking Point	Display Status
None	All lamps turn on	
1 time	Clockwise spin (right)	Motor rpm (About 47)
2 times	Low speed Spin	Motor rpm (About 590~650)
3 times	High speed Spin	Motor rpm (About 1100~1200) : WD-12360(5)TD / WD-12361(6)TD
		Motor rpm (About 1300~1400) : WD-14360(5)TD / WD-14361(6)TD
4 times	Inlet valve for pre-wash operation	Water level frequency (225~265)
5 times	Inlet valve for main-wash operation	Water level frequency (225~265)
	Hot inlet valve in case of hot water fill	
6 times	Inlet valve for main-wash operation	Water level frequency (225~265)
7 times	Counterclockwise spin (left)	Motor rpm (About 47)
8 times	A Heater is in operation for 3 sec.	Water Temperature
9 times	Draining pump operation	Water level frequency
10 times	Auto off operation	

7-3.HOW TO KNOW THE WATER LEVEL FREQUENCY

∗ Press the **Bio** button and **Time delay** button simultaneously.

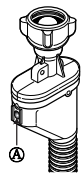


ex) 241 : Water level frequency = 241×10^{-1}kHz

= 24.1kHz

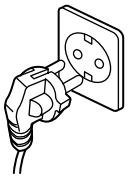
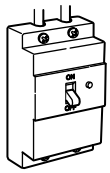
7-4.ERROR DISPLAY.

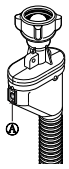
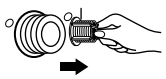
- If you press the [Start/Pause] button when an error in displayed, any error except S/W ERROR will disappear and the machine will change into pause status.
- In case of 『PE』, 『tE』, 『dE』, if the error is not resolved within 15 sec. In case of other errors, if the error is not resolved within 4 min. Power will be turned off automatically and the error only will be blinked. But in the case of 『FE』, power will not be turned off.

	ERROR	SYMPTOM	CAUSE
1	WATER INLET ERROR	1E	○ Water has not reached to the pre-set level within 4 min. since inlet valve operated, or water has not reached to the normal level within 25 min. ○ If water leakage occured in the inlet hose, indicator "Ⓐ" will be changed red color. 
2	IMBALANCE ERROR	UE	○ The appliance is tilted. ○ Laundry is gathered to one side. ○ Non distributable things are put into the drum.
3	DRAIN ERROR	OE	○ Water has not drained enough within 8 min.
4	OVERFLOW ERROR	FE	○ Water is automatically being pumped out because too much water is in the tub.
5	SENSOR PRESSURE S/W ERROR	PE	○ The sensor pressure switch is out of order.
6	DOOR OPEN ERROR	dE	○ The [Start/Pause] button is pressed with the door open. ○ The door switch is out of order.
7	HEATING ERROR	tE	○ The thermistor is out of order.
8	CURRENT ERROR	CE	○ PWB ASSEMBLY (Main) is out of order ☞ Replace the PWB ASSEMBLY (Main) ○ Winding in the MOTOR is short-circuited. ☞ Replace the MOTOR
9	LOCK ERROR	LE	○ The Connector (3-pin, male, white) in the wire harness is not connected to the Connector (3-pin, female, white) of MOTOR. ☞ Reconnect or repair the connector ○ The electric contact between the connectors [3-pin, male, white in the wire harness and 6-pin, female, white in the PWB ASSEMBLY (Main)] is bad or unstable. ☞ Reconnect or repair the contact in the connector ○ The wire harness between the MOTOR and PWB ASSEMBLY (Main) is cut (open circuited). ○ The hall sensor is out of order/defective. ☞ Replace the PWB ASSEMBLY (Main)
10	Aqua lock	Aqua lock	Water leaks.

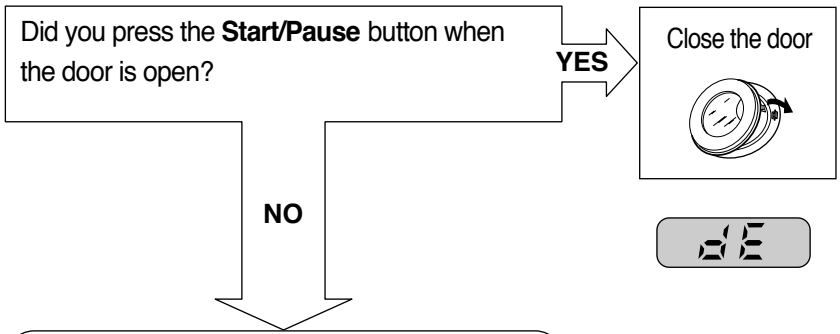
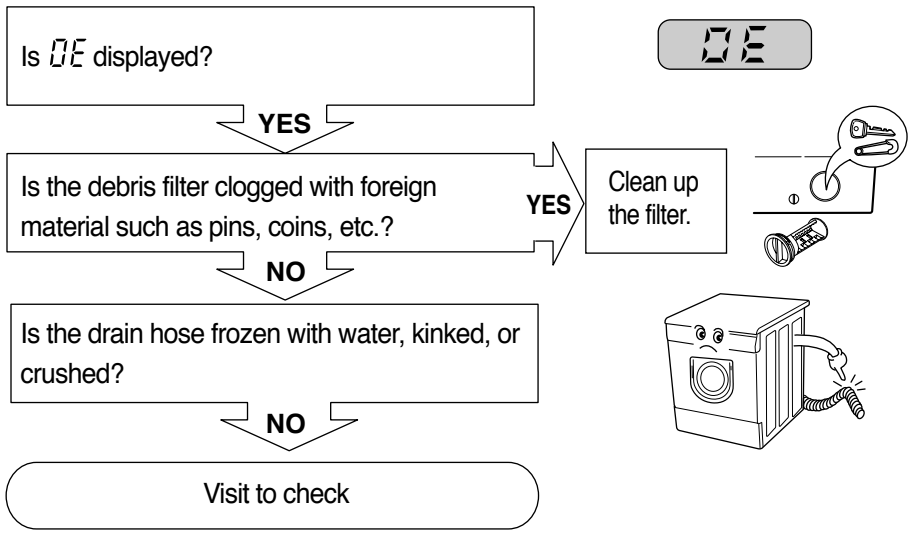
8. ERROR DIAGNOSIS AND CHECK LIST

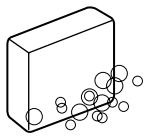
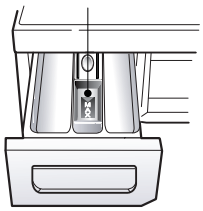
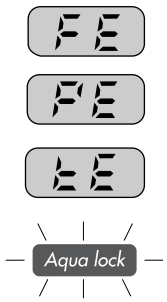
8-1.DIAGNOSIS AND ANSWER FOR ABNORMAL OPERATION

<table>
<tr><th>SYMPTOM</th><th>GUIDE FOR SERVICE CALL</th></tr>
<tr><td>NO POWER</td><td>
Is the power plug connected firmly to 220-240V~ outlet?
YES
Power failure? or Breaker opened? Is the outlet controlled by a switch.
NO
Visit to check


</td></tr>
<tr><td>Water inlet trouble
 </td><td>
Is 1E displayed?

YES
Is the tap opened?
YES
Is the tap frozen?
NO
Is the water supply shut-off?
NO
Is the Inlet hose “A” part to be seen red color?

YES → Visit to check
NO
Is filter in the inlet valve clogged with foreign material?
YES → Clean the filter of inlet valve

NO
Visit to check

</td></tr>
</table>

SYMPTOM	GUIDE FOR SERVICE CALL
◦ DOOR OPEN ERROR Refer to 7-4 ERROR DISPLAY 	 **Check if the door switch is O.K**
◦ Drain Trouble 	

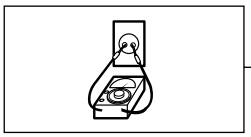
SYMPTOM	GUIDE FOR SERVICE CALL
◦ Suds overflow from the appliance. (In this condition, wash and spin do not operate normally)	Is low-sudsing detergent for the durm washing machine used? **YES** Is the proper amount of detergent used as recommended? **YES** Recommend to reduce the amount of detergent.  LOW SUDSING DETERGENT ✳ This appliance has the automatic suds sensing function which operates under much suds condition for good rinse and preventing overflow. ✳ When much suds are sensed, the suds removing function such as drain, water input, and pause will operate without rotating the drum.
◦ No effect of softener	Is softener put in the correct compartment of drawer? **YES** Is the drawer closed during wash? **YES** Is the softener cap clogged? **YES** Explain how to use softener **Clean the compartment for softener** Compartment for softener 
	Visit to check

8-2.FAULT DIAGNOSIS AND TROUBLESHOOTING

CAUTION

1. Be careful of electric shock or disconnecting the parts while troubleshooting.
2. First of all, check the connection of each part terminal with wiring diagram.
3. If you replace the PWB assembly (Main), put in the connectors correctly.

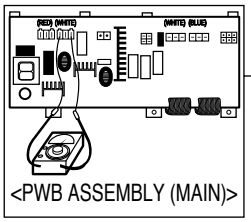
NO POWER



When measuring the voltage of the outlet, is the voltage AC 220-240V?

NO → Check the fuse

YES



<PWB ASSEMBLY (MAIN)>

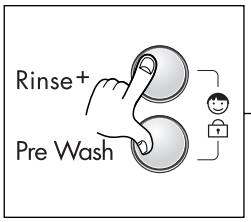
When measuring the voltage of White(3pin) connector of the PWB assy, is the voltage AC 220-240V?

NO → Check the harness Assembly.

YES

Replace PWB assembly.

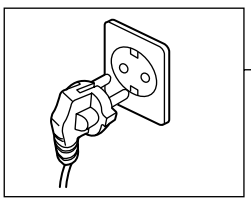
ALL BUTTONS ARE INOPERABLE EXCEPT POWER BUTTON



Is Child Lock set?

YES → Cancle the Child-Lock by pressing both Rinse+ Button and Pre Wash Button simultaneously for 3 seconds.

NO



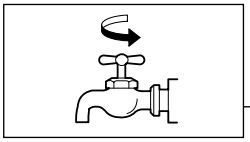
First, unplug the power cord and plug again. Check the buttons are working.

YES → Normal

NO

Visit to check

NO WATER SUPPLY

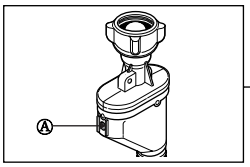


Is the water supply shut-off?

NO

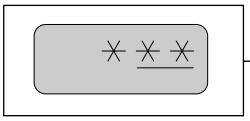
Is the tap opened? **NO** → Open the tap.

YES



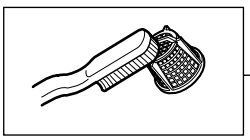
Is the Inlet hose “A” part to be seen red color? **YES** → Visit to check (Change the inlet hose)

NO



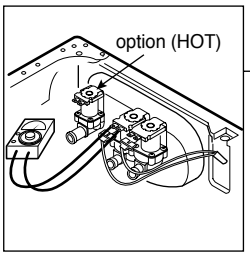
When you press both **Bio** button and **Time Delay** button simultaneously, is the water level frequency below 240? **YES** → Check the chamber (Air) and the tube clogged with impurity.

NO



Is the inlet valve filter clogged with impurity? **YES** → Clean the filter.

NO

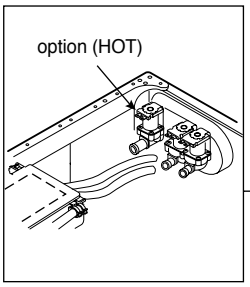


Is resistance of the inlet valve connector between the 2 to 8 kΩ? **NO** → Replace the inlet valve.

YES

Check the voltage between each terminals of inlet Valve is 220 - 240V~.
(Refer to 7-2 TEST MODE) **NO** → Replace PWB assembly

DETERGENT DOES NOT FLOW IN

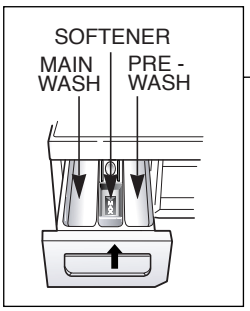


Is water supplied? **NO** → Refer to solution 「NO INLET」

YES

Are receptacles correctly connected to the terminals of inlet valve? **NO** → Check the wiring on the dispenser.

YES



Is detergent put in the correct compartment of the drawer? **NO** → Put the detergent in the correct position

PRE+MAIN

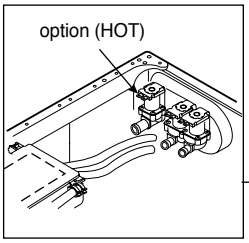
MAIN WASH

● : Detergent

YES

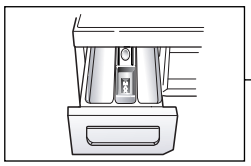
Is the detergent caked or hardened? **YES** → Clean the drawer.

SOFTENER DOES NOT FLOW IN

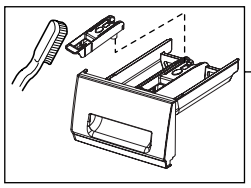


Is water supplied?
- NO → Refer to 「NO WATER SUPPLY」
- YES ↓

Are receptacles correctly connected to the terminals of inlet valve?
- NO → Check the wiring on the dispenser.
- YES ↓

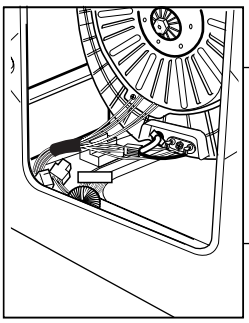


Is softener put in the correct compartment of drawer?
- NO → Put it in the correct compartment.
- YES ↓



Is the softner cap clogged?
- YES → Clean the cap and drawer.

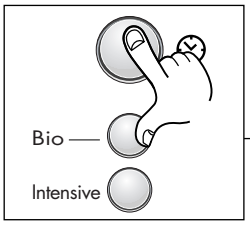
ABNORMAL SOUND



Is the motor bolt loosened?
- YES → Fix the bolt tightly.
- NO ↓

Is there friction noise from the motor?
- YES → Replace the STATOR ASSEMBLY or ROTOR ASSEMBLY.

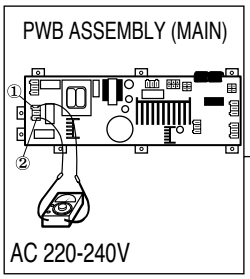
HEATING WITHOUT WATER



When pressing [**Bio**] button and [**Time Delay**] button at the same time after draining, is the water level frequency 252 or more?
When pressing [**Bio**] button and [**Time Delay**] button at the same time while wash, is the water level frequency between 230~245~?

NO → Replace the sensor (pressure)

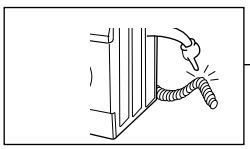
YES



Checking voltage between two (①, ②) pins as press the power button is the voltage 220 - 240V~ ?

NO → Replace the PWB assembly

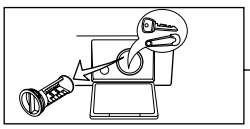
DRAIN MALFUNCTIONING



Is the drain hose twisted or frozen?

YES → Repair drain hose

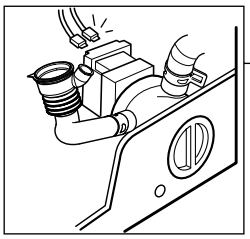
NO



Is the impeller of the drain pump clogged?

YES → Remove foreign material.

NO



Is the connector disconnected, disassembled?

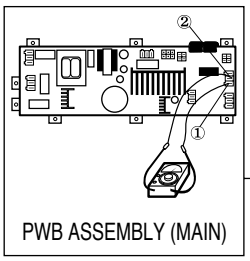
YES → Reconnect or repair the connector

NO

Is the coil of drain pump cut-off? (resistance of coil is 90~160 Ω)

YES → Replace the pump assembly

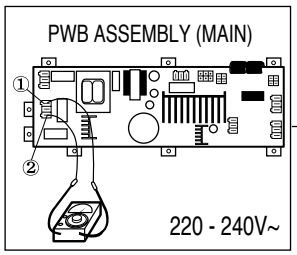
NO



When checking voltage between connectors (①, ②) on spinning, is the voltage 220 - 240V~ as the figure?

NO → Replace the PWB assembly (Main)

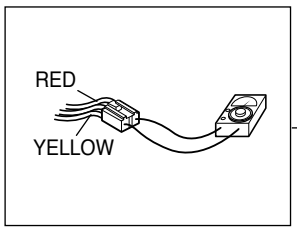
WASH HEATER TROUBLE



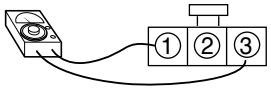
When checking the voltage between connector (①, ②) the PWB assembly (Main) during whites washing ,Is the voltage 220 - 240V ~?

NO → Replace the PWB assembly (Main)

YES ↓

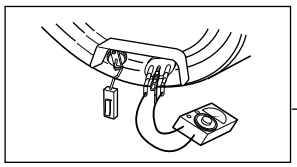


After power off,is the resistance of wire (RED-YELLOW) connectors between 10Ω to 30Ω?



YES → Normal

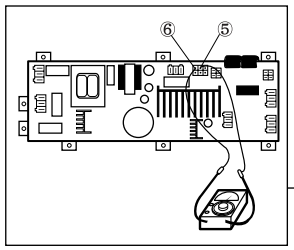
NO ↓



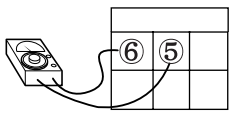
After power off and the heater terminal is disconnected, is the resistance 10 to 30Ω?

NO → Replace the heater assembly

HEATING CONTINUOUSLY ABOVE THE SETTING WATER TEMPERATURE

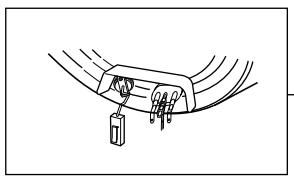


When disconnect the connector on the PWB assembly (Main) is the resistance of the Natural connectors [⑥ (White), ⑤ (Blue)] between 2.5kΩ to 180kΩ (105°C ~ 0°C)?



NO → Replace the thermistor (6322FR2046C)

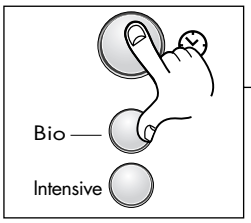
YES ↓



When checking thermistor on the tub, is the thermistor loosened above 2mm from the rubber?

YES → Push the thermistor tightly to the rubber.

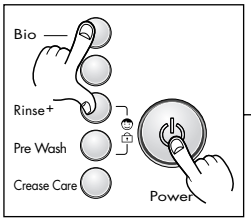
SPIN TROUBLE



While spinning, is the frequency of the water level 248 or more? The frequency can be checked by pressing the **Bio** button and **Time Delay** button at the same time on the program.

NO → Check the sensor (Pressure) or hose (Sensor). If the problem is on the sensor or the hose, replace the sensor or the hose.

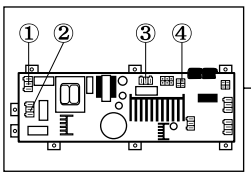
YES



When pressing **Bio** button and **Rinse+** button and **POWER** button at the same time after power off, press the **START/PAUSE** button 2 times, is the drum low speed spin?

YES → Normal

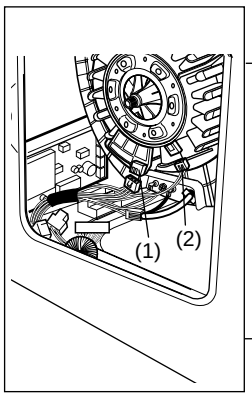
NO



Is it disconnected, or disassembled?
[White : 3pin (①), Red:3pin (②), Red:3pin (③), National:4pin (④)]

YES → Correct the connector.

NO



Is it disconnected, or disassembled?
White : 3pin(①), White:4pin(②)]

YES → Correct the connector.

NO

Check the motor connector, Is the resistance of the terminal same as the figure?

MOTOR TERMINAL (1)

①	②	③

Resistance of terminal:

①~② / ②~③ / ③~① : About 5Ω~10Ω

NO → Replace the STATOR ASSEMBLY (4417EA1002D)

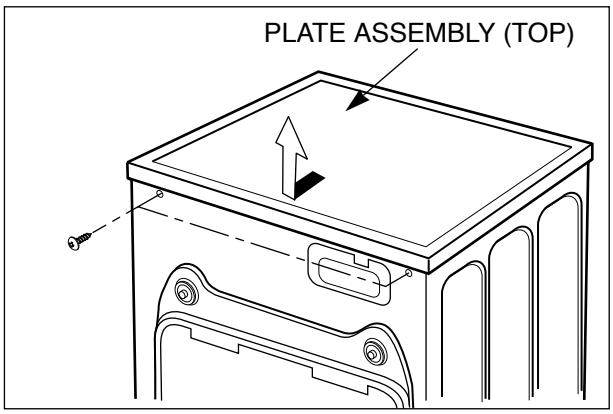
YES

Replace the PWB assembly.

9. DISASSEMBLY INSTRUCTIONS

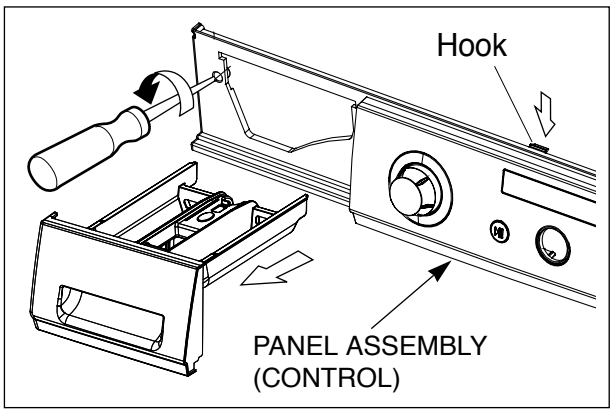
* Be sure to unplug the machine out of the outlet before disassembling and repairing the parts.

CONTROL PANEL



① Unscrew 2 screws on the back of the top plate.

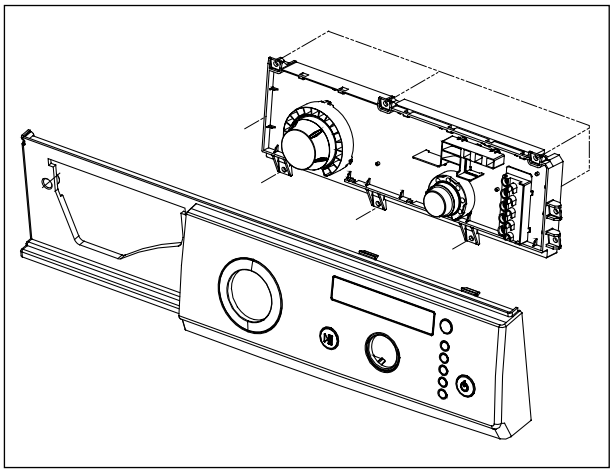
② Pull the top plate backward and upward as shown.



① Disconnect the PWB Assembly connector from Main lead wire Assembly.

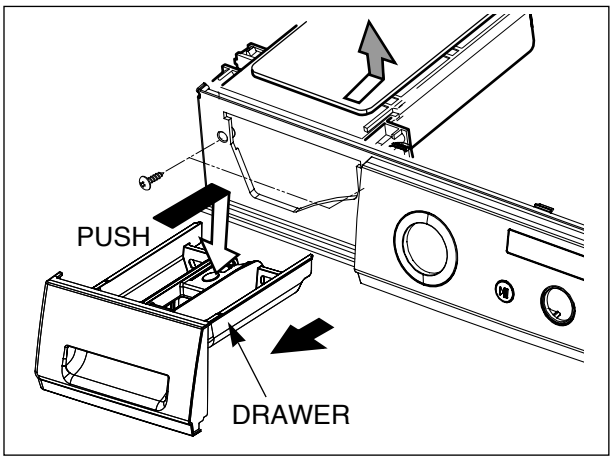
② Pull out the drawer and unscrew 2 screws.

③ Push upper hooks down on the top and pull the control panel.

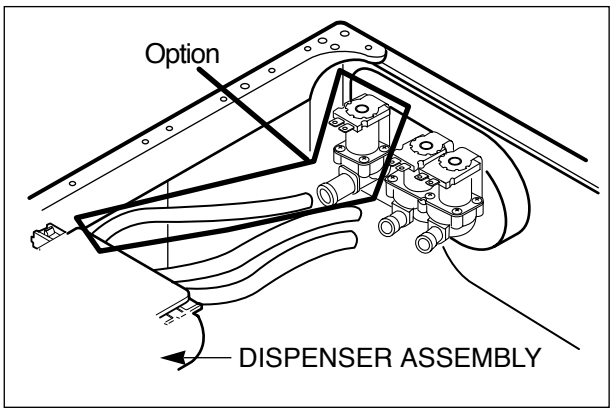


① Disconnect the PWB assembly (Main & Display) from the control panel by unscrewing 7 screws.

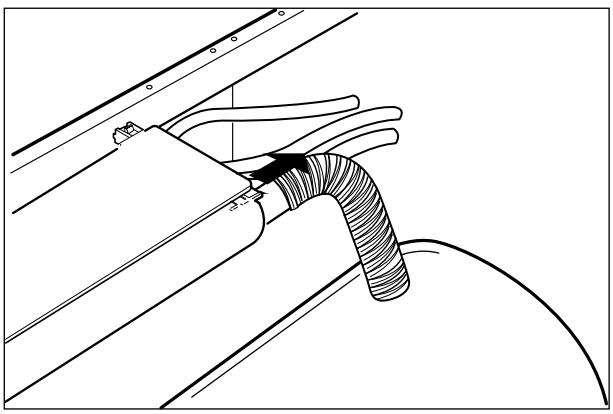
DISPENSER ASSEMBLY



① Disassemble the top plate assembly.
② Pull out the drawer to arrow direction.
③ Unscrew 2 screws.

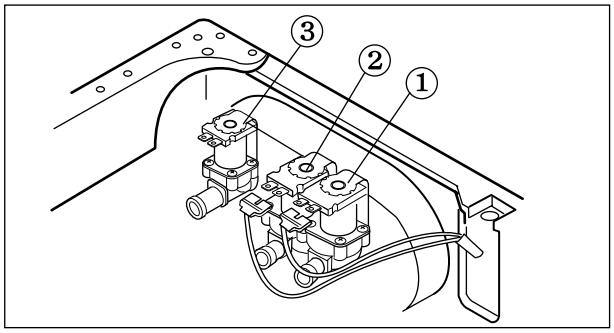


① The hose clamps and the hose are disassembled.



① The ventilation bellows and the water inlet bellows are disassembled on the tub.

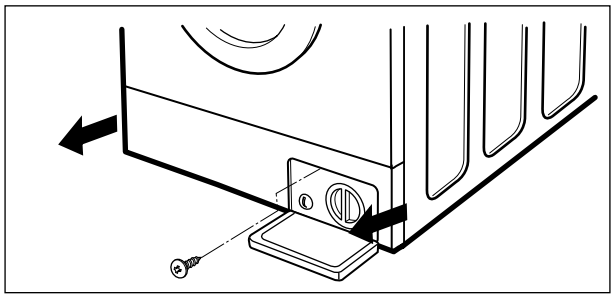
INLET VALVE



① Disconnect the wiring receptacle.
② Unscrew 2 screws from the back.
※ When reconnecting the connector

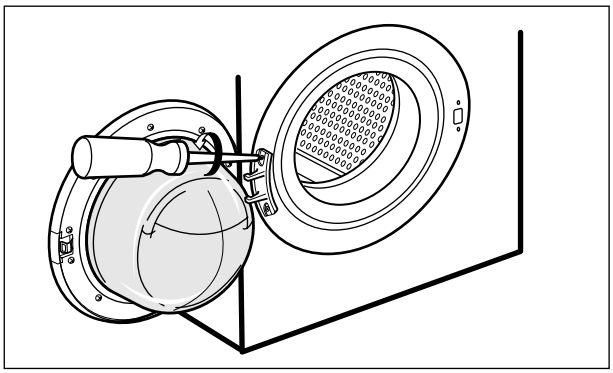
VALVE #1 (MAIN)	White / Black - Black
VALVE #2 (PRE)	Gray / White - Black
VALVE #3 (HOT)	Blue / Red - Black

LOWER COVER



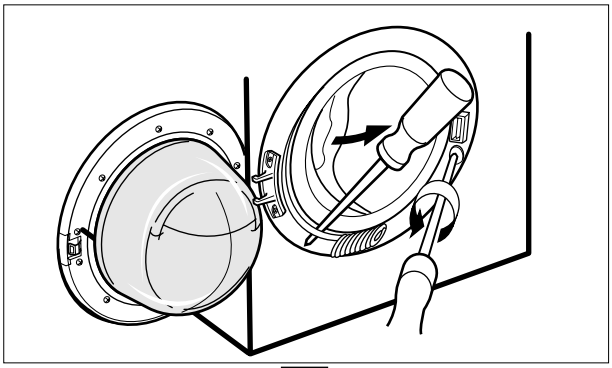
■ Open the lower cover cap by using coin and pull out the lower cover to the arrow direction after a screw is unscrewed.

DOOR

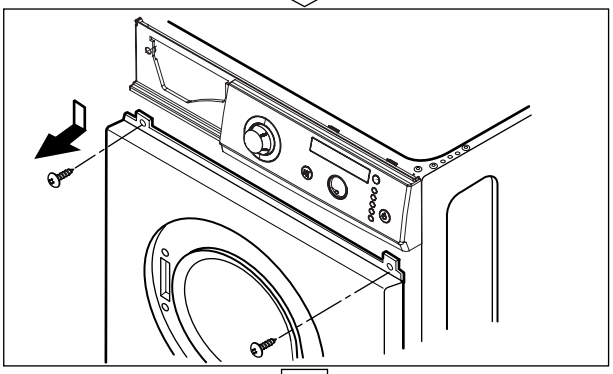


① Open the door completely.
② Remove the two screws from the hinge.
※ When removing the door assembly, it is necessary to hold the bracket that is inner of the cabinet cover.

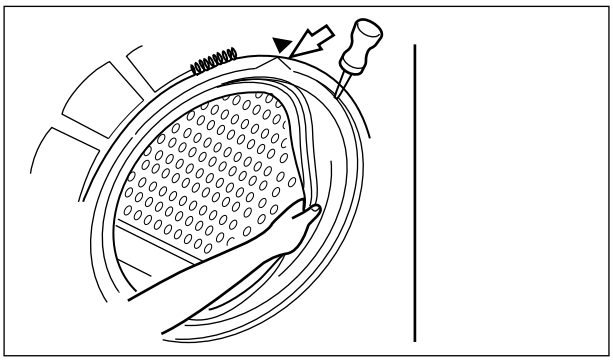
GASKET ASSEMBLY



① Take apart the cabinet gasket clamp.
② Unscrew 2 screws from the cabinet cover.
③ Open the lower cover cap and unscrew 1 screw inside.
④ Take apart the lower cover.

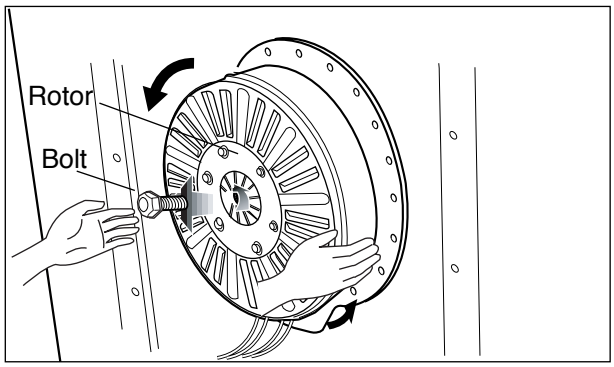


① Disassemble the control panel. (page 24)
② Unscrew all the screws on the upper and lower sides of the cabinet cover.



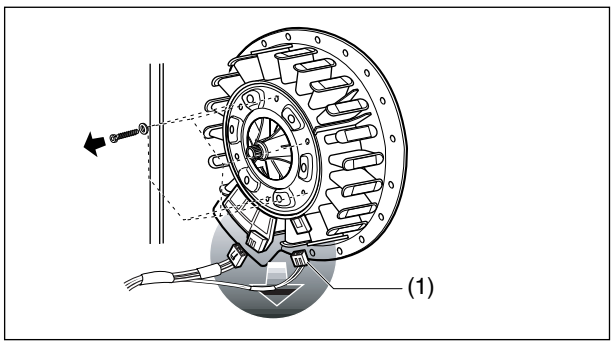
① Take apart the tub gasket clamp.
② Make sure that the drain hole of the gasket is put beneath when reassembling the gasket.
※ Refer to the arrow mark on the tub cover.

ROTOR ASSEMBLY, STATOR ASSEMBLY, FRICTION DAMPER ASSEMBLY



(ROTOR ASSEMBLY)

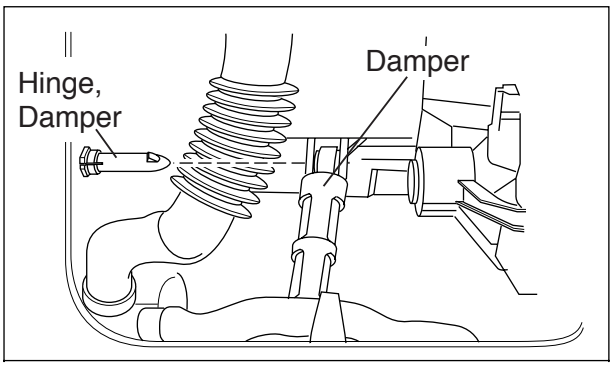
① Remove the BACK COVER.
② Unscrew the bolt to pull out the ROTOR ASSEMBLY.



(STATOR ASSEMBLY)

① Disconnect the wiring connector.
② Unscrew 6 bolts from the STATOR.
③ Remove the STATOR.

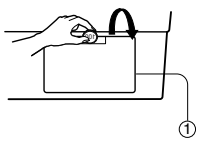
* Note : Hook of connector (1) is on the backside



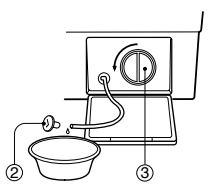
(DAMPER)

① Pull out the hinge, pressing its snap.
② Do not use the pulled-out hinge again. It may be taken off during operation.

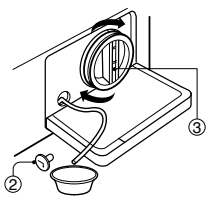
■ Clean the drain pump filter



Open the lower cover cap (①) by using a coin. Turn the drain plug (②) to pull out the hose.

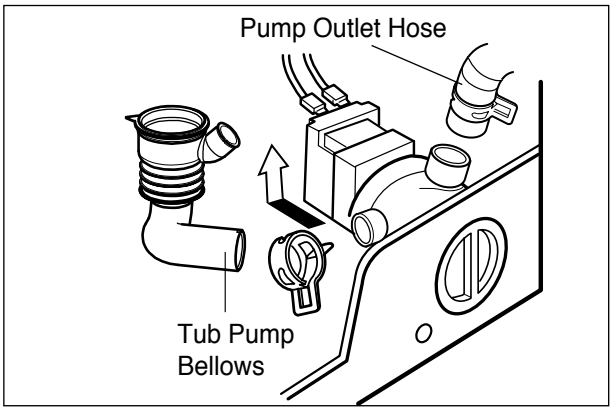


Unplug the drain plug (②), then the water flows out,
At this time use a vessel to prevent water from flowing on the floor. If the water does not flow any more, turn the pump filter (③) open to the left.



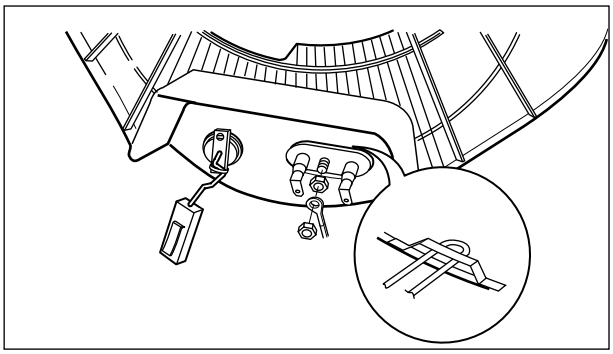
Take out any foreign material from the pump filter (③). After cleaning, turn the pump filter(③) clockwise and insert the drain plug (②) to the original place. close the lower cover cap.

PUMP



① Remove pump outlet hose.
② Remove tub pump bellows.
③ Remove cap (Remaining Hose.)
④ Disconnect the wiring.
⑤ Unscrew 2 screws.
⑥ Remove the pump.

HEATER

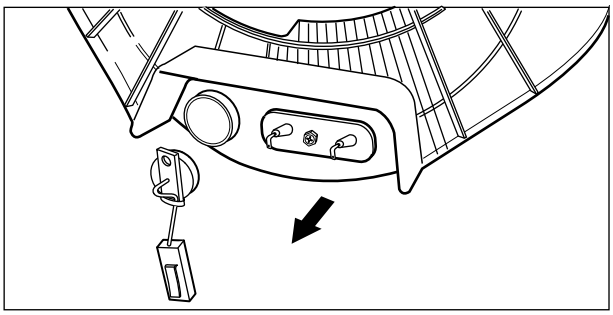


① Loosen the M6 heater nut to pull out the heater.

CAUTION

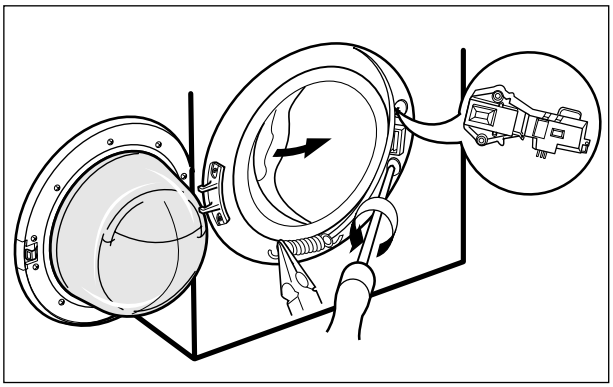
When mounting the heater, be sure to insert the heater into the heater clip on the bottom of the tub.

THERMISTOR



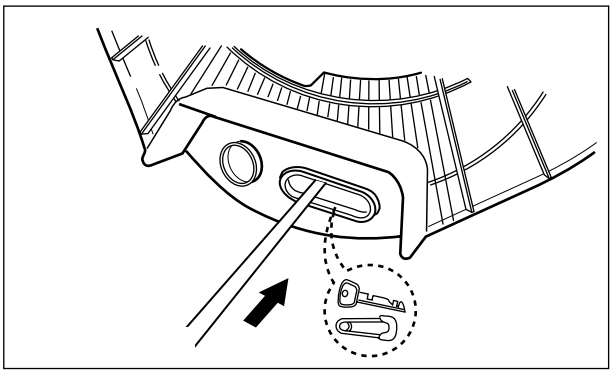
① Pull it out by holding the thermistor bracket.
＊ If it is pulled by the wire, it may be broken.
② When mounting the thermistor again, make sure that it is got back tight to the bushing.

SWITCH ASSEMBLY, DOOR LOCK



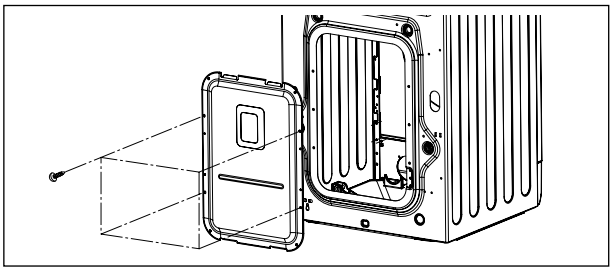
① Take apart the cabinet cover clamp and release the gasket.
② Unscrew 2 screws holding the door lock.
③ Disconnect the door lock from the wiring connector.

WHEN FOREIGN MATERIAL IS STUCK BETWEEN DRUM AND TUB

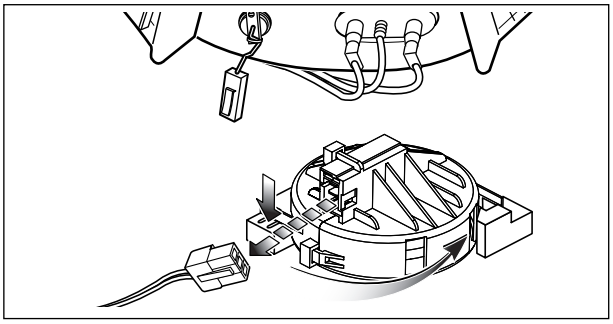


① Remove the heater.
② Remove the foreign material (wire, coin and others) by inserting a long bar through the hole.

SWITCH ASSEMBLY, SAFETY



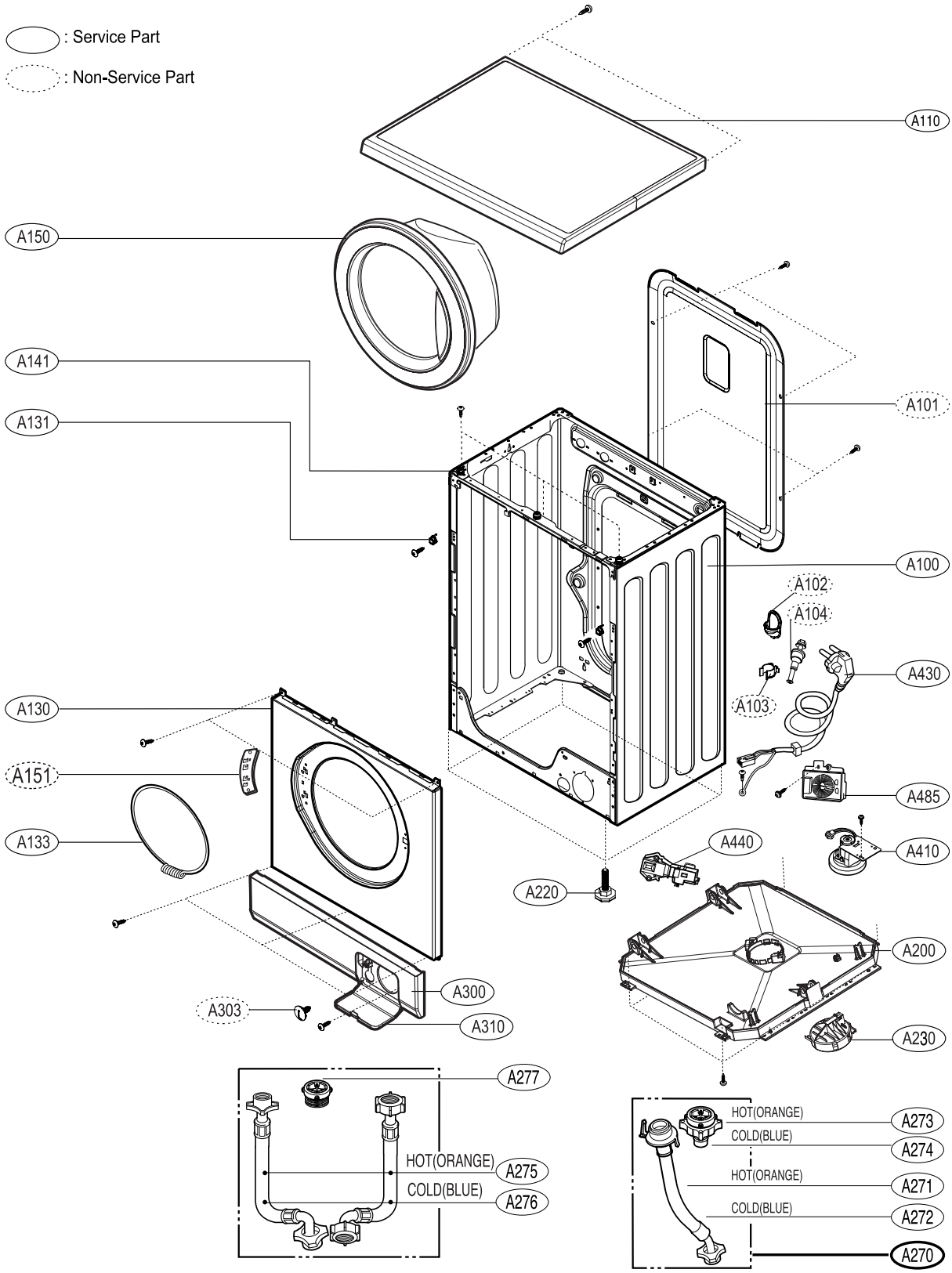
① Unscrew 4 screws from the back cover.



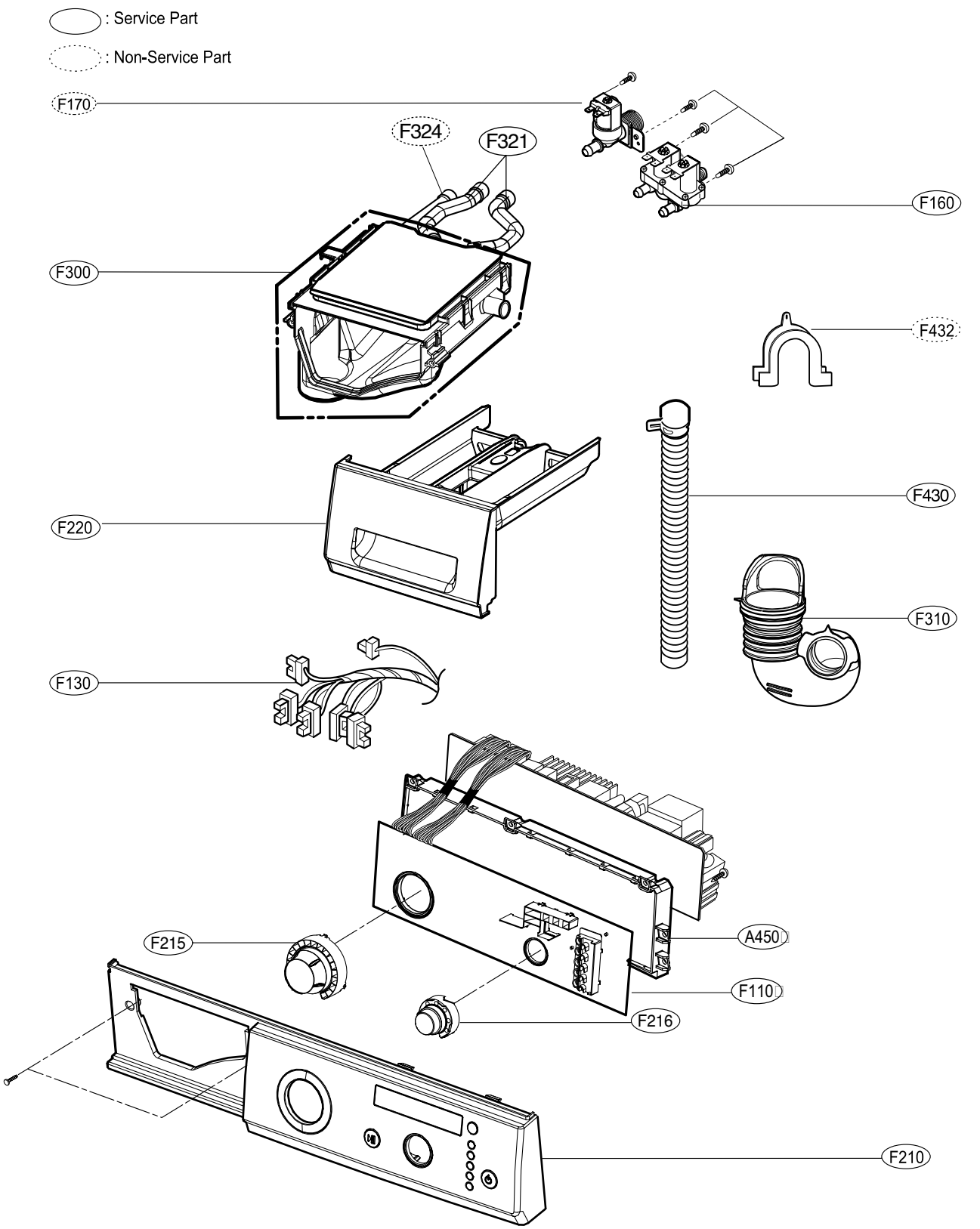
② Disconnect the wiring connector.
③ Turn and press hook of switch assembly safety.

10. EXPLODED VIEW

10-1.THE EXPLODED VIEW OF CABINET ASSEMBLY



10-2 THE EXPLODED VIEW OF CONTROL PANEL & DISPENSER ASSEMBLY



10-3 THE EXPLODED VIEW OF DRUM & TUB ASSEMBLY